

Product datasheet for MC215739

Mael (NM_175296) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mael (NM_175296) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mael
Synonyms:	4933405K18Rik; AU019877
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC215739 representing NM_175296 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCAACCGCAGGGCCAGCCGAATGCCTACTATTTCTTCGTACAGGAGAAGATTCCCGAACCGCC
GGCAGGGCTGCCGTTGGCCCGTGGCAGACGCCATCCCCTACTGCTCGGCCACTGGCGCTCTTGAG
GGAGGATGAGAAGGAGAAATACTCAGAAATGGCTCGAGAGTGGAGAGCAGCCAGGAAAGGATTCTGGG
CCTTCAGAGAAGCAGAACTTGTATCTACACCACTGAGGAGGCCAGGCATGCTTGTACAAAACCAAGTA
TTTCTCCCTGATATGTCAAATTTATCTATAAAAAGTATCAAGCTCTCCTTGGAGGCATTTTTTATTT
TCTGAACATTTTTAGCCATGGTGAAGTACCTCCTCATTGTGAACAGCGCTTCTCCCTTGTGAAATTGGC
TGTGTTAAATACTCCCTCCAGGAAGGATTTATGGCAGATTTCCACAGTTTTATCCATCCAGGTGAAATTC
CACGAGGATTCGATTCCATTGCCAGGCTGCAAGTATTCTAGTCACAAGATTCCTATTTCAAATTTGA
ATTCGGGCATGACCAAGCAACTGTGTTACAAAACCTCTATAAATTTATACATCCAAACCCAGGAACTGG
CCACCTATTTACTGCAAGTCTGATGATAGAGCCAGAGTCAACTGGTGTGTTGAAGCGTATGGAGCGGGCAT
CAGAAATAAGGCAAGATCTAGAACTTCTCACTGTAGAGACCTTGTAGTTGGGATCTACCAGCAAAAAT
CCTCAAGGAGCCCTTAAGACCTGGGTGCGAAGCCTCCTAGATGTGCCATGTGGGACTATTCTAGCAAC
ACGAGGTGCAAATGGCATGAAGAAAATGATATTCTCTTCTGTGCTTTAGCTGTTTGAAGAAAATCGCGT
ACTGCATCAGTAATTTCTAGCCACTCTGTTTGGAAATCCAGTCACTGGAGCTCATGTACCACTACAAGA
CTATGAGGCCAGCAACAGTGTGACACCCAAAATGGTTGTATTGGATGCAGGGCGTACCAGAAGCTAAGA
GTTGAGAGTCCAGGATTCTGTCATTTCACTCTTACAATCAGGAACAAAGATCAAATACATCTACTGTT
ATTATCCATCTGGGGTGAATAATTCGGGCCCTCACAGCAGTGTTCGCGGAAGAGGAATTACCGCTTACT
AGAGAGCATCTCAAACCTCCAACAACATCCATAGATTCTCCAGCTGTGAGACTTCACTCTCACCTTAC
ACGCCCAAAAAGATGGGTACAAACCTTCTCCTCTTTTCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_175296
Insert Size:	1305 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_175296.4 , NP_780505.1
RefSeq Size:	1546 bp
RefSeq ORF:	1305 bp
Locus ID:	98558
UniProt ID:	Q8BVN9
Cytogenetics:	1 H2.3
Gene Summary:	Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with piP-bodies suggests a participation in the secondary piRNAs metabolic process. Required for the localization of germ-cell factors to the meiotic nuage.[UniProtKB/Swiss-Prot Function]